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(54) **Brushless electric motor with permanent magnets inside the rotor and electronic power supply and driver thereof**

(57) A brushless motor in which the rotor (2) is divided into four quadrants, each having at least one recess (9,10) whose central region is arranged at 45° with

respect to the axes along which the quadrant is ideally defined; a permanent magnet (15,19) shaped like a parallelepiped being inserted within the region of the recess (9,10).

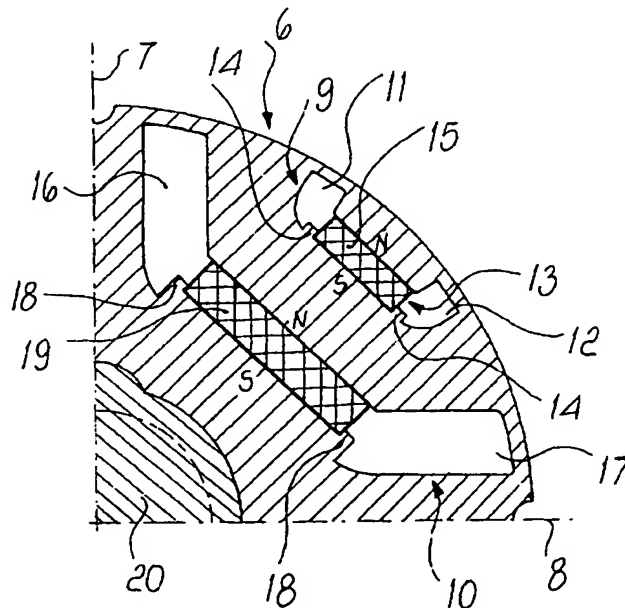


Fig. 2

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# EUROPEAN SEARCH REPORT

Application Number  
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 698 (E-1481), 20 December 1993 (1993-12-20) & JP 05 236687 A (DAIKIN IND LTD), 10 September 1993 (1993-09-10) * abstract; figures *	1-4	H02K1/27
X,P	EP 0 930 691 A (FUJITSU GENERAL LTD) 21 July 1999 (1999-07-21) * column 11, line 18 - column 11, line 54 * * figures 5,7 *	1-4	
X	EP 0 778 660 A (FORD WERKE AG ;FORD FRANCE (FR); FORD MOTOR CO (GB)) 11 June 1997 (1997-06-11) * abstract * * column 5, line 4 - column 5, line 15 * * figure 1 *	5,6	
A	US 5 097 166 A (MIKULIC KRESO) 17 March 1992 (1992-03-17) * abstract; figures *	1-4	TECHNICAL FIELDS SEARCHED (Int.CI.7)  H02K H02P
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>15 January 2002</b>	Examiner <b>Ramos, H</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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